



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/784,693

02/23/2004

Michael D. Modglin

57590.US / 1720.0

1303

408 7590 04/09/2007
LUEDEKA, NEELY & GRAHAM, P.C.
P O BOX 1871
KNOXVILLE, TN 37901

EXAMINER

LEWIS, KIANDRA CHARLE

ART UNIT

PAPER NUMBER

3772

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
----------------------------------------	-----------	---------------

3 MONTHS

04/09/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary

Application No.

10/784,693

Applicant(s)

MODGLIN, MICHAEL D.

Examiner

Kiandra C. Lewis

Art Unit

3772

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 2/23/2004.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-9 and 11-18 is/are rejected.
- 7) ☒ Claim(s) 10 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 23 February 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 10/07/2004.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claim 1,4,5-9,11-13,15,17, and 18 are rejected under 35 U.S.C. 102(b) as being anticipated by Tweardy et al. US 6,921,376.

As to claims 1,13 and 15, Tweardy et al. disclose a cervical collar (Fig. 1A) comprising; a posterior portion (col. 3, lines 49-51) generally configured to conform to a rear neck portion of a patient, the posterior portion comprising an upper posterior segment (200) having an upper posterior rigid member (204) connected to an upper posterior laminate body (202) and a lower posterior segment (300) comprising a lower posterior rigid member connected to a lower posterior laminate body, wherein the upper posterior rigid member is adjustably securable to the lower posterior rigid member and the upper posterior laminate body is adjustably securable to the lower posterior laminate body, with the upper and lower posterior laminate bodies each comprising a laminated structure having a polymeric sheet material, a foam material, and a fabric material; and

An anterior portion (100, col. 3, lines 44-48) generally configured to conform to a chin and front neck portion of the patient, the anterior portion comprising an upper anterior segment (106) having an upper anterior rigid member (see chin strut 102, col. 4, lines 22-24) connected to an upper anterior laminate body (106) and a lower anterior

Art Unit: 3772

segment (108) comprising a lower anterior rigid member connected to a lower anterior laminate body, wherein the upper anterior rigid member is adjustably securable to the lower anterior rigid member (101, col. 4, lines 62-66) and the upper anterior laminate body is adjustably securable to the lower anterior laminate body, with the upper and lower anterior laminate bodies each comprising a laminated structure having a polymeric sheet material (col. 5, lines 1-7) and a fabric material (col. 5, lines 7-10).

As to claim 4, the upper and lower posterior rigid member each comprise substantially rigid plastic member (struts, 102).

As to claim 5, the upper and lower anterior rigid member each comprise substantially rigid plastic members (struts, 202).

As to claims 6 and 7, the upper posterior and upper anterior rigid member may comprise fasteners releasably engageable with the aperture (col. 4, lines 1-5).

As to claim 8, the upper posterior laminate body and the lower posterior laminate body have matingly positionable surfaces that are releasably attachable to one another for permitting the laminate bodies to be adjustably positionable (via buckle or fastener or rivets, fig. 1A) relative to one another.

As to claim 9, the upper anterior laminate body and the lower anterior laminate body have matingly positionable surfaces that are releasably attachable to one another for permitting the laminate bodies to be adjustably positionable relative to one another.

As to claim 11, the collar comprises straps (205) for maintaining the anterior portions in an overlapped orientation when installed on a user.

Art Unit: 3772

As to claim 12, the collar comprises a supplemental strap system (322,334) configured to extend between portions of the posterior portion and the anterior portion and to extend adjacent an under-arm region of a user.

As to claim 17, the medical support comprises a strap (205) wherein the laminate body is substantially flexible in an untensioned state so as to be positionable about a portion of a user, yet which becomes sufficiently rigid when positioned about the portion of a user and tensions as by the use of the strap.

As to claim 18, the invention of Tweardy et al. is a support in comprising a cervical collar.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Art Unit: 3772

5. Claims 2, 3, 14 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tweardy et al. in view of Calabrese US 2005/0101896.

As to claims 2, 3, 14 and 16 Tweardy et al. disclose the limitations of the base claim but do not expressly state that the laminate bodies comprise a low density polyethylene material. However, it would have been obvious to one having ordinary skill in the art at the time of the invention to use such a material because it has been known in the art as a material used for cervical collar ([0002], [0014]).

Allowable Subject Matter

6. Claim 10 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US 5,632,722; US RE 34,714; US 6,315,746.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kiandra C. Lewis whose telephone number is 571-272-7517. The examiner can normally be reached on Mon-Thurs 9AM-6PM and alternating Fridays 9AM-5PM.

Art Unit: 3772

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patricia Bianco can be reached on 571-272-4940. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

KCL


PATRICIA BIANCO
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3700

4/2/07